

# UNIVERSITY CORE CURRICULUM

The Texas A&M Core Curriculum, in compliance with the Texas Core Curriculum, provides students with a foundation of knowledge of human cultures and the physical and natural world, develops principles of personal and social responsibility for living in a diverse world, and advances intellectual and practical skills that are essential for all learning. The Core Curriculum enhances the individual degree program and university graduation requirements, and all three areas must be met by every student.

Given the rapid evolution of necessary knowledge and skills and the need to take into account global, national, state, and local cultures, the core curriculum ensures that students will develop the essential knowledge and skills they need to be successful in college, in a career, in their communities, and in life. The core curriculum acts to enrich and broaden the University's tradition of providing thorough preparation in each student's academic major and preparing students for a lifetime of learning.

The University Core Curriculum requirements are described in the section that follows. These requirements must be met by every student entering Texas A&M University on or after the 2014 fall semester. Students entering earlier will be guided by the core curriculum in the catalog upon which they entered the university. Individual degree programs may require that specific courses from the core curriculum be used to satisfy core curriculum requirements. Please check with individual program advisors for details. Students transferring course credit to satisfy the Core Curriculum requirements should refer to the Texas Common Course Numbering System (<http://catalog.tamu.edu/undergraduate/appendices/texas-common-course-numbering-system>).

Texas A&M University branch campuses in Galveston and Qatar do not offer all of the courses included in the Texas A&M core curriculum. All campuses offer courses in each Foundational Component Area so that students can complete the core curriculum at their home campus.

However, the Galveston and Qatar campuses have a limited number of courses in each Foundational Component Area. Students should consult their academic advisors for information on core curriculum courses available at their specific campus.

The core curriculum focuses on the development of six skills that have been shown to be effective in preparing students for the job market and their role in a diverse world and democratic society.

- *Critical Thinking Skills* – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
- *Communication Skills* – to include effective development, interpretation and expression of ideas through written, oral and visual communication.
- *Empirical and Quantitative Skills* – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.
- *Teamwork* – to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.
- *Personal Responsibility* – to include the ability to connect choices, actions and consequences to ethical decision-making.

- *Social Responsibility* – to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities.

Students develop and practice these skills in the context of 42 semester credit hours assigned to eight Foundational Component Areas, each made up of a selection of courses that meet the definition provided by the Texas Core Curriculum. For additional information, please reference <http://core.tamu.edu>.

## Communication - 6 SCH

Code	Title	Semester Credit Hours
COMM 203	Public Speaking	3
COMM 205	Communication for Technical Professions	3
COMM 243	Argumentation and Debate	3
ENGL 103	Introduction to Rhetoric and Composition	3
ENGL 104	Composition and Rhetoric	3
ENGL 203	Writing about Literature	3
ENGL 210	Technical and Business Writing	3
THAR 407	Performing Literature.	3

Courses in this category focus on developing ideas and expressing them clearly, considering the effective of the message, fostering understanding, and building the skills needed to communicate persuasively. Courses involve the command of oral, aural, written, and visual literacy skills that enable people to exchange messages appropriate to the subject, occasion, and audience. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, team work, and personal responsibility.

## Mathematics – 6 SCH<sup>1</sup>

Code	Title	Semester Credit Hours
MATH 131	Mathematical Concepts—Calculus	3
MATH 140	Mathematics for Business and Social Sciences	3
MATH 141	Finite Mathematics	3
MATH 142	Business Calculus	3
MATH 147	Calculus I for Biological Sciences	4
MATH 148	Calculus II for Biological Sciences	4
MATH 150	Functions, Trigonometry and Linear Systems	4
MATH 151	Engineering Mathematics I	4
MATH 152	Engineering Mathematics II	4
MATH 166	Topics in Contemporary Mathematics II	3
MATH 167	Explorations in Mathematics	3
MATH 171	Analytic Geometry and Calculus	4
MATH 172	Calculus	4
PHIL 240	Introduction to Logic	3
STAT 201	Elementary Statistical Inference	3

Courses in this category focus on quantitative literacy in logic, patterns, and relationships. Courses involve the understanding of key

mathematical concepts and the application of appropriate quantitative tools to everyday experiences. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, and empirical and quantitative.

## Life and Physical Sciences – 9 SCH<sup>2</sup>

Code	Title	Semester Credit Hours
ANSC 107	General Animal Science	3
ANTH 225	Introduction to Biological Anthropology	3
ANTH 226	Introduction to Biological Anthropology Laboratory	1
ASTR 101	Basic Astronomy	3
ASTR 102	Observational Astronomy	1
ASTR 103	Introduction to Stars and Exoplanets	3
ASTR 104	Introduction to Galaxies and Cosmology	3
ASTR 109/ PHYS 109	Big Bang and Black Holes	3
ASTR 111	Overview of Modern Astronomy	4
ASTR 119/ PHYS 119	Big Bang and Black Holes: Laboratory Methods	1
ATMO 201	Weather and Climate	3
ATMO 202	Weather and Climate Laboratory	1
BESC 201	Introduction to Bioenvironmental Sciences	3
BESC 204	Molds and Mushrooms: The Impact of Fungi on Society and the Environment	3
BIOL 101	Botany	4
BIOL 107	Zoology	4
BIOL 111	Introductory Biology I	4
BIOL 112	Introductory Biology II	4
BIOL 113	Essentials in Biology	4
CHEM 101	Fundamentals of Chemistry I	3
CHEM 102	Fundamentals of Chemistry II	3
CHEM 106	Molecular Science for Citizens	3
CHEM 107	General Chemistry for Engineering Students	3
CHEM 111	Fundamentals of Chemistry Laboratory I	1
CHEM 112	Fundamentals of Chemistry Laboratory II	1
CHEM 116	Molecular Science for Citizens Laboratory	1
CHEM 117	General Chemistry for Engineering Students Laboratory	1
ENGR 101	Energy: Resources, Utilization and Importance to Society	4
ENTO 322	Insects and Human Society	3
ESSM 309	Forest Ecology	3
FIVS 123	Forensic Investigations	3
GEOG 203	Planet Earth	3

GEOG 205	Environmental Change	3
GEOG 213	Planet Earth Lab	1
GEOL 101	Principles of Geology	3
GEOL 102	Principles of Geology Laboratory	1
GEOL 106	Historical Geology	4
GEOS 210	Climate Change	3
HORT 201	Horticultural Science and Practices	3
HORT 202	Horticultural Science and Practices Laboratory	1
KINE 120	The Science of Basic Health and Fitness	1
KINE 223	Introduction to the Science of Health and Fitness	3
NFSC 222	Nutrition for Health and Health Care	3
OCNG 251	Oceanography	3
OCNG 252	Oceanography Laboratory	1
PHYS 109/ ASTR 109	Big Bang and Black Holes	3
PHYS 119/ ASTR 119	Big Bang and Black Holes: Laboratory Methods	1
PHYS 123	Physics for Future Presidents	3
PHYS 125	Soft Matter Physics for Non-physicists	3
PHYS 201	College Physics	4
PHYS 202	College Physics	4
PHYS 206	Newtonian Mechanics for Engineering and Science	3
PHYS 207	Electricity and Magnetism for Engineering and Science	3
PHYS 208	Electricity and Optics	4
PHYS 218	Mechanics	4
POSC 201	General Avian Science	3
RENR 205	Fundamentals of Ecology	3
RENR 215	Fundamentals of Ecology–Laboratory	1
SCSC 105	World Food and Fiber Crops	3
SCSC 301	Soil Science	4
SCSC 405	Soil and Water Microbiology	3

Courses in this category focus on describing, explaining, and predicting natural phenomena using the scientific method. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on human experiences. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, empirical and quantitative, and team work.

## Language, Philosophy and Culture – 3 SCH

Code	Title	Semester Credit Hours
AFST 204/ ENGL 204	Introduction to African-American Literature	3
AFST 345/ HIST 345	Modern Africa	3

ANTH 204	The Prehistoric World	3	ENGL 362/ HISP 362	Latino/a Literature	3
ANTH 205	Peoples and Cultures of the World	3	ENGL 365/ RELS 360	The Bible as Literature	3
ANTH 210	Social and Cultural Anthropology	3	ENGL 374/ WGST 374	Women Writers	3
ANTH 270	Cultural Diversity and Ethics	3	ENGL 376	The American Novel Since 1900	3
ANTH 316	Nautical Archaeology	3	ENGR 482/ PHIL 482	Ethics and Engineering	3
ANTH 317/ RELS 317	Introduction to Biblical Archaeology	3	FREN 201	Intermediate French I	3
ARAB 201	Intermediate Arabic I	3	FREN 202	Intermediate French II	3
ARAB 202	Intermediate Arabic II	3	GEOG 202	Geography of the Global Village	3
ARCH 213	Sustainable Architecture	3	GEOG 301	Geography of the United States	3
ARCH 346	Architecture, Heritage and Culture	3	GEOG 305	Geography of Texas	3
CARC 331	Field Studies in Design Philosophy	3	GERM 201	Intermediate German I	3
CHIN 201	Intermediate Chinese I	3	GERM 202	Intermediate German II	3
CHIN 202	Intermediate Chinese II	3	HISP 206	Food in the Hispanic World	3
CLAS 220	History of Christianity: Origins to the Reformation	3	HISP 362/ ENGL 362	Latino/a Literature	3
CLAS 221	Intermediate Latin I	3	HIST 101	Western Civilization to 1660	3
CLAS 222	Intermediate Latin II	3	HIST 102	Western Civilization Since 1660	3
CLAS 250	Greek and Roman Civilization	3	HIST 103	World History to 1500	3
CLAS 251/ RELS 251	Classical Mythology	3	HIST 104	World History Since 1500	3
CLAS 429/ HIST 429	The Roman Empire	3	HIST 210	Russian Civilization	3
COMM 301	Rhetoric in Western Thought	3	HIST 213	History of England	3
COMM 327	American Oratory	3	HIST 214	History of England	3
ENGL 202	Environmental Literature	3	HIST 220	History of Christianity: Origins to the Reformation	3
ENGL 204/ AFST 204	Introduction to African-American Literature	3	HIST 221/ RELS 221	History of Islam	3
ENGL 206	Twenty-first Century Literature and Culture	3	HIST 234	European Military History	3
ENGL 207	Human Thinking and Digital Culture	3	HIST 242	United States Maritime History	3
ENGL 221/ MODL 221	World Literature	3	HIST 345/ AFST 345	Modern Africa	3
ENGL 222/ MODL 222	World Literature	3	HIST 347/ RELS 347	Rise of Islam, 600-1258	3
ENGL 227	American Literature: The Beginnings to Civil War	3	HIST 429/ CLAS 429	The Roman Empire	3
ENGL 228	American Literature: Civil War to Present	3	INTS 251	Contemporary Issues in the Middle East	3
ENGL 231	Survey of English Literature I	3	ITAL 201	Intermediate Italian I	3
ENGL 232	Survey of English Literature II	3	ITAL 202	Intermediate Italian II	3
ENGL 253	Introduction to Cultural Studies and Popular Culture	3	JAPN 201	Intermediate Japanese I	4
ENGL 306	Transnational Literature and Culture	3	JAPN 202	Intermediate Japanese II	4
ENGL 330	Arthurian Literature	3	LAND 240	History of Landscape Architecture	3
ENGL 333/ WGST 333	Gay and Lesbian Literature	3	MODL 221/ ENGL 221	World Literature	3
ENGL 334	Science Fiction Present and Past	3	MODL 222/ ENGL 222	World Literature	3
ENGL 335	Literature of the Sea	3	MUSC 201	Music and the Human Experience	3
ENGL 338	American Ethnic Literature	3	MUSC 227	Popular Music of India	3
ENGL 350	Twentieth-Century Literature to World War II	3	MUSC 325/ PERF 325	Dance and World Cultures	3
ENGL 352	Literature, World War II to Present.	3			
ENGL 360	Literature for Children	3			

MUSC 326	Dance and Identity in the United States	3	ARCH 249	Survey of World Architecture History I	3
MUST 221	Foundations of Museum Studies	3	ARCH 250	Survey of World Architecture History II	3
NFSC 300	Religious and Ethnic Foods	3	ARCH 350	History and Theory of Modern and Contemporary Architecture	3
PERF 325/ MUSC 325	Dance and World Cultures	3	ARTS 149	Art History Survey I	3
PERF 326	Dance and Identity in the United States	3	ARTS 150	Art History Survey II	3
PHIL 111	Contemporary Moral Issues	3	CARC 311	Field Studies in Design Communication	3
PHIL 251	Introduction to Philosophy	3	COMM 257/ RELS 257	Communication, Religion and the Arts	3
PHIL 482/ ENGR 482	Ethics and Engineering	3	COMM 340	Communication and Popular Culture	3
RELS 220	History of Christianity: Origins to the Reformation	3	DCED 202	Dance Appreciation	3
RELS 221/ HIST 221	History of Islam	3	ENDS 101	Design Process	3
RELS 251/ CLAS 251	Classical Mythology	3	ENDS 115	Design Communication Foundations	3
RELS 312	Contemplation in the Modern World	3	ENGL 212	Shakespeare	3
RELS 317/ ANTH 317	Introduction to Biblical Archaeology	3	ENGL 219	Literature and the Other Arts	3
RELS 347/ HIST 347	Rise of Islam, 600-1258	3	ENGL 251/ FILM 251	Introduction to Film Analysis	3
RELS 360/ ENGL 365	The Bible as Literature	3	FILM 251/ ENGL 251	Introduction to Film Analysis	3
RUSS 201	Intermediate Russian I	3	FILM 425/ FREN 425	French Film	3
RUSS 202	Intermediate Russian II	3	FREN 425/ FILM 425	French Film	3
SPAN 201	Intermediate Spanish I	3	HISP 204	Spanish and Spanish American Literature in Translation	3
SPAN 202	Intermediate Spanish II	3	HORT 203	Floral Design	3
SPMT 220	Olympic Studies	3	INTS 215/ FILM 215	Global Cinema	3
THAR 155	History of Western Dress	3	KINE 210	The Art of Movement	3
THAR 156	Dress, Culture and Society	3	KINE 311	Fundamental Rhythms and Dance	3
THAR 281	History of the Theatre II	3	MUSC 201	Music and the Human Experience	3
WGST 200	Introduction to Women's and Gender Studies	3	MUSC 221	Guitar Heroes	3
WGST 333/ ENGL 333	Gay and Lesbian Literature	3	MUSC 222	Music of the Americas	3
WGST 374/ ENGL 374	Women Writers	3	MUSC 225	History of Jazz	3

Courses in this category focus on how ideas, values, beliefs, and other aspects of culture express and affect human experience. Courses involve the exploration of ideas that foster aesthetic and intellectual creation in order to understand the human condition across cultures. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, social responsibility, and personal responsibility.

## Creative Arts – 3 SCH

Code	Title	Semester Credit Hours
AFST 327	Popular Musics in the African Diaspora	3
ANTH 324/ MUSC 324	Music in World Cultures	3
ARCH 249	Survey of World Architecture History I	3
ARCH 250	Survey of World Architecture History II	3
ARCH 350	History and Theory of Modern and Contemporary Architecture	3
ARTS 149	Art History Survey I	3
ARTS 150	Art History Survey II	3
CARC 311	Field Studies in Design Communication	3
COMM 257/ RELS 257	Communication, Religion and the Arts	3
COMM 340	Communication and Popular Culture	3
DCED 202	Dance Appreciation	3
ENDS 101	Design Process	3
ENDS 115	Design Communication Foundations	3
ENGL 212	Shakespeare	3
ENGL 219	Literature and the Other Arts	3
ENGL 251/ FILM 251	Introduction to Film Analysis	3
FILM 251/ ENGL 251	Introduction to Film Analysis	3
FILM 425/ FREN 425	French Film	3
FREN 425/ FILM 425	French Film	3
HISP 204	Spanish and Spanish American Literature in Translation	3
HORT 203	Floral Design	3
INTS 215/ FILM 215	Global Cinema	3
KINE 210	The Art of Movement	3
KINE 311	Fundamental Rhythms and Dance	3
MUSC 201	Music and the Human Experience	3
MUSC 221	Guitar Heroes	3
MUSC 222	Music of the Americas	3
MUSC 225	History of Jazz	3
MUSC 226	History of Rock	3
MUSC 228	History of Electronic Music	3
MUSC 301	Performance in World Cultures	3
MUSC 324/ ANTH 324	Music in World Cultures	3
MUSC 327	Popular Musics in the African Diaspora	3
MUSC 328/ THAR 328	Japanese Traditional Performing Arts	3
MUSC 386/ THAR 386	Evolution of the American Musical	3
PERF 301	Performance in World Cultures	3
PERF 327	Popular Musics in the African Diaspora	3
PHIL 330	Philosophy of Art	3
PHIL 375	Philosophy of the Visual Media	3

RELS 257/ COMM 257	Communication, Religion and the Arts	3
THAR 201	Introduction to World Theatre	3
THAR 281	History of the Theatre II	3
THAR 301	Performance in World Cultures	3
THAR 328/ MUSC 328	Japanese Traditional Performing Arts	3
THAR 386/ MUSC 386	Evolution of the American Musical	3

Courses in this category focus on the appreciation and analysis of creative artifacts and works of the human imagination. Courses involve the synthesis and interpretation of artistic expression and enable critical, creative, and innovative communication about works of art. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, team work, and social responsibility.

## American History – 6 SCH

Code	Title	Semester Credit Hours
AFST 300/ HIST 300	Blacks in the United States, 1607-1877	3
AFST 301/ HIST 301	Blacks in the United States Since 1877	3
HIST 105	History of the United States	3
HIST 106	History of the United States	3
HIST 226	History of Texas	3
HIST 230	American Military History, 1609 to Present	3
HIST 232	History of American Sea Power	3
HIST 258	American Indian History	3
HIST 300/ AFST 300	Blacks in the United States, 1607-1877	3
HIST 301/ AFST 301	Blacks in the United States Since 1877	3
HIST 304	Mexican-American Frontier to 1848	3

Courses in this category focus on the consideration of past events and ideas relative to the United States, with the option of including Texas History for a portion of this component area. Courses involve the interaction among individuals, communities, states, the nation, and the world, considering how these interactions have contributed to the development of the United States and its global role. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, social responsibility, and personal responsibility.

## Government/Political Science – 6 SCH

Code	Title	Semester Credit Hours
POLS 206	American National Government	3
POLS 207	State and Local Government	3

Courses in this category focus on consideration of the Constitution of the United States and the constitutions of the states, with special emphasis on that of Texas. Courses involve the analysis of governmental institutions, political behavior, civic engagement, and their political and philosophical foundations. The following skills will be addressed in the

courses that comprise this area: critical thinking, communication, social responsibility, and personal responsibility.

## Social and Behavioral Sciences – 3 SCH

Code	Title	Semester Credit Hours
AGEC 105	Introduction to Agricultural Economics	3
AGEC 350	Environmental and Natural Resource Economics	3
ALEC 450	Global Social Justice Issues in Agriculture	3
ANTH 201	Introduction to Anthropology	3
ANTH 202	Introduction to Archaeology	3
ARCH 212	Social and Behavioral Factors in Design	3
ARCH 458	Cultural and Ethical Considerations for Global Practice	3
COMM 315	Interpersonal Communication	3
COMM 320	Organizational Communication	3
COMM 325	Persuasion	3
COMM 335	Intercultural Communication	3
COMM 365/ JOUR 365	International Communication	3
ECON 202	Principles of Economics	3
ECON 203	Principles of Economics	3
EPSY 320	Child Development	3
EPSY 321	Adolescent Development	3
GEOG 201	Introduction to Human Geography	3
HLTH 236	Race, Ethnicity and Health	3
HORT 335	Sociohorticulture	3
INST 210	Understanding Special Populations	3
INST 222	Foundations of Education in a Multicultural Society	3
INST 301	Educational Psychology	3
JOUR 102	American Mass Media	3
JOUR 365/ COMM 365	International Communication	3
MARS 210	Marine Geography	3
PSYC 107	Introduction to Psychology	3
SOCI 205	Introduction to Sociology	3
SOCI 206	Global Social Trends	3
SOCI 207/ WGST 207	Introduction to Gender and Society	3
SOCI 210	Sociology of Technology and Science	3
SOCI 211	Sociology of Deviance	3
SOCI 212	Sociology of Popular Culture	3
SOCI 217	Introduction to Race and Ethnicity	3
SOCI 304	Criminology	3
SOCI 312	Population and Society	3
SOCI 313	Military, War and Society	3
SOCI 314	Social Problems	3

SOCI 315/ WGST 315	The Marriage Institution	3
SOCI 319/ SPMT 319	Sociology of Sport	3
SOCI 327	Morality and Society	3
SPMT 304	Sport Psychology Management and Practice	3
SPMT 319/ SOCI 319	Sociology of Sport	3
SPMT 336	Diversity in Sport Organizations	3
SPMT 337	International Sport Business	3
URPN 201	The Evolving City	3
URPN 202	Building Better Cities	3
URPN 361	Urban Issues	3
WGST 207/ SOCI 207	Introduction to Gender and Society	3

Courses in this category focus on the application of empirical and scientific methods that contribute to the understanding of what makes us human. Courses involve the exploration of behavior and interactions among individuals, groups, institutions, and events, examining their impact on the individual, society, and culture. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, empirical and quantitative, and social responsibility.

<sup>1</sup> Applicable courses are listed in the Texas Higher Education Coordinating Board course inventory as meeting either the Mathematics or the Component Area Option Foundational Component Area.

<sup>2</sup> Applicable courses are listed in the Texas Higher Education Coordinating Board course inventory as meeting either the Life and Physical Sciences or the Component Area Option Foundational Component Area.